



USE	
CODE	DESCRIPTION
C	COMBINED
F	FOUL
S	SURFACE WATER
T	TRADE EFFLUENT
W	CULVERT WATERCOURSE
Z	OTHER

COMMON MATERIALS	
CODE	DESCRIPTION
VC	VITRIFIED CLAY
PVC	POLYVINYL CHLORIDE
CO	CONCRETE
CI	CAST IRON
PF	PITCH FIBRE
PE	POLYETHYLENE
DI	DUCTILE IRON

Start Node	Description	Finish Code
MH	Manhole	MHF
IC	Inspection Chamber	ICF
GY	Gully	GYF
RE	Rodding Eye	REF
SK	Soakaway	SKF
BN	Buchan Trap	BNF
BR	Major connection without a manhole	BRF
CP	Catch pit	CPF
OC	Other special chamber	OCF
OF	Outfall	OFF
OS	Oil Separator	OSF
LH	Lamp hole	LHF

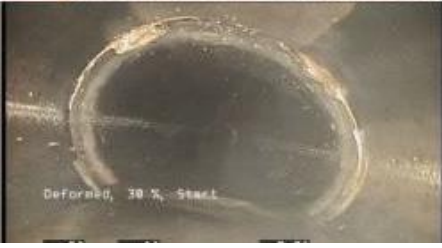
CODE	OBSERVATION	DESCRIPTION	ATTRIBUTES	IMAGE
B	BROKEN	PIPES HAVE VISIBLY MOVED	DEFINED BY CLOCK REFERENCES. ASSOCIATED WITH DEFORMITY IN A RIGID PIPE	
CC CL CM CS CR	CRACKS	CRACKS ARE BREAK LINES THAT ARE NOT VISIBLY OPEN	DEFINED BY CLOCK REFERENCE/ POSITIONS. LONGITUDINAL AND RADIATING CRACKS ATTRACT ONLY ONE CLOCK REFERENCE	
CN CNC CX CX B CX D	CONNECTION	LATERAL PIPE HAS BEEN ADDED AFTER ORIGINAL CONSTRUCTION	DEFINED BY CLOCK REFERENCE AND PIPE DIAMETER	

Unit 42, Greenway Business Centre Harlow Business Park Harlow CM19 5QE Tel: 01279 456008

admin@knightanddayltd.co.uk Company Number: 11639814



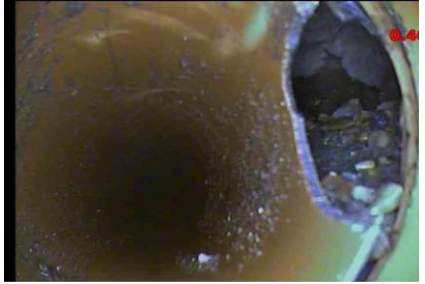


CODE	OBSERVATION	DESCRIPTION	ATTRIBUTES	IMAGE
CU	LOSS OF VISION	CAMERA IS SUBMERGED UNDER WATER/SILT/DEBRIS. OPERATOR UNABLE TO VIEW THE DRAIN	IF THE CAMERA IS UNDERWATER CONTINUOUS DEFECTS CODE CAN BE USED	
D	DEFORMED	PIPE HAS LOST IT'S STRUCTURE AND STRENGTH	DEFINED BY PERCENTAGE LOSS OF HEIGHT OR WIDTH OF CROSS SECTIONAL AREA (5% INCREMENTS)	
DEE	DEPOSITS	ATTACHED SCALE ENCRUSTATION DEPOSITS EVIDENT	DEFINED BY CLOCK REFERENCED POSITION AND PERCENTAGE LOSS OF CROSS SECTIONAL AREA (5% INCREMENTS)	
DEG	DEPOSITS GREASE	ATTACHED GREASE DEPOSITS EVIDENT	DEFINED BY CLOCK REFERENCED POSITION AND PERCENTAGE LOSS OF CROSS SECTIONAL AREA (5% INCREMENTS)	
DER DES	DEPOSITS COARSE/FINE	SETTLED DEPOSITS ON THE INVERT OF THE PIPE	DEFINED BY CLOCK REFERENCED POSITION AND PERCENTAGE LOSS OF CROSS SECTIONAL AREA (5% INCREMENTS)	
FC FL FC FM	FRACTURES	FRACTURES ARE VISIBLY OPEN FOR THE FULL WIDTH OF THE PIPE WALL. PIPE HAS NOT MOVED	DEFINED BY CLOCK REFERENCE POSITION(S).	

Unit 42, Greenway Business Centre Harlow Business Park Harlow CM19 5QE Tel: 01279 456008

admin@knightanddayltd.co.uk Company Number: 11639814

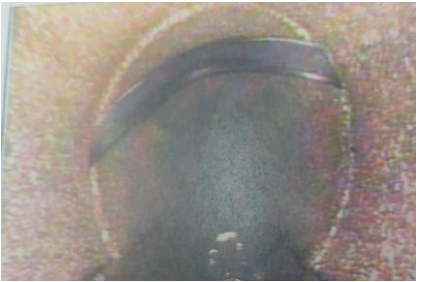
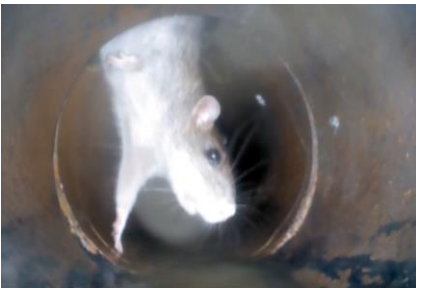


CODE	OBSERVATION	DESCRIPTION	ATTRIBUTES	IMAGE
H	HOLES	SECTION OF PIPE WALL MISSING	DEFINED BY CLOCK REFERENCE LOCATION. USUALLY TWO CLOCK REFERENCES	
ID IG IR IS	INFILTRATION	WATER IS INFILTRATING THE PIPE, NORMALLY VIA A JOINT OR OTHER DEFECT	SEEPER – SLOW RUNNER – CONSTANT WATER DRIPPING-SLOW DRIP GUSHER – WATER ENTERING THE DRAIN IS UNDER PRESSURE	
JDM JDL	JOINT DISPLACED MEDIUM JOINT DISPLACED LARGE	PIPE HAS MOVED AT JOINT, PERPENDICULAR TO THE AXIS OF THE PIPE	JDM – BETWEEN 1 AND 1.5 TIMES THE PIPE WALL THICKNESS IS VISIBLE JDL – MORE THAN 1.5 TIMES THE PIPE WALL THICKNESS IS VISIBLE	
JN JN C JX JX B JX D JX P JX Z	JUNCTION CLOSED DEFECTIVE BLOCKED DEFECTIVE DEFECTIVE DEFECTIVE	LATERAL PIPE WAS INSTALLED AT CONSTRUCTION	DESCRIBED BY CLOCK REFERENCE POSITION AND DIAMETER. JX – DAMAGED JOINT DUE TO CRACKS/FRACTURES/OBSTRUCTIONS	
LD LR LL LU	LINE DOWN LINE RIGHT LINE LEFT LINE UP	LINE/DRAIN DEVIATION		

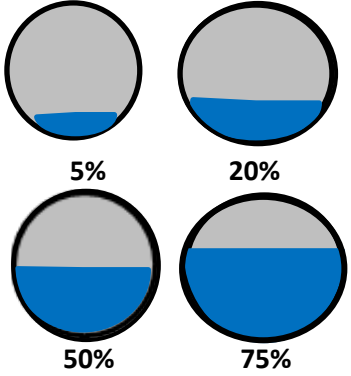


CODE	OBSERVATION	DESCRIPTION	ATTRIBUTES	IMAGE
LC	LINING CHANGES	IF THE DRAIN HAS BEEN REPAIRED BY LINING, THE LINING MATERIAL HAS CHANGED	POSITION OF LINING MATERIAL CHANGE	
MC	MATERIAL CHANGE	THE PIPE MATERIAL HAS CHANGED	POSITION OF CHANGE NOTED. TYPE OF MATERIAL CHANGE CAN BE DEFINED	
OB OB B OB C OB I OB M OB P OB S OB X	OBSTRUCTION BRICK CONCRETE OTHER OTHER PIPE/CABLE OTHER OTHER	AN OBSTRUCTION OR OBSTACLE IS AFFECTING THE FLOW THROUGH THE PIPE	DESCRIBED IN PERCENTAGE LOSS OF CROSS-SECTIONAL AREA	
OJM OJL	OPEN JOINT MEDIUM OPEN JOINT LARGE	PIPE HAS MOVED AT JOINT, ALONG THE AXIS OF THE PIPE	OJM – BETWEEN 1 AND 1.5 TIMES THE THICKNESS IS VISIBLE OJL – MORE THAN 1.5 TIMES THE THICKNESS IS VISIBLE	
RF(J) RM (J) RT(J)	ROOTS FINE (JOINT) ROOTS MASS (JOINT) ROOTS TAP (JOINT)	EVIDENCE OF ROOT INTRUSION WITHIN THE PIPE OR SEWER.	ROOTS ENTER THE PIPE USUALLY VIA JOINTS, CRACKS/FRACTURES AND BROKEN PIPES	



CODE	OBSERVATION	DESCRIPTION	ATTRIBUTES	IMAGE
REM	GENERAL REMARK	GENERAL REMARK THAT REFERS TO MISCELLANEOUS ITEMS		
SA	SURVEY ABANDONED	USED WHEN THE SURVEY CANNOT CONTINUE FOR ANY REASON	REASON FOR SURVEY ABANDONMENT SHOULD BE NOTED IN THE REMARKS AREA	
SC	SHAPE CHANGES	DIMENSION OF DRAIN CHANGES	DIAMETER DIMENSION CHANGE RECORDED. SECOND DIMENSION IS RECORDED FOR NO CIRCULAR PIPE CHANGES	
SR	SEALING RING	SEALING RING INTRUDES INTO THE PIPE VIA THE JOINT	DESCRIBED BY CLOCK REFERENCE POSITION	
V	VERMIN	EVIDENCE OF VERMIN IN THE PIPE	CAN ALSO BE USED FOR EVIDENCE WITHIN MANHOLE CHAMBERS	



CODE	OBSERVATION	DESCRIPTION	ATTRIBUTES	IMAGE
WL	WATER LEVEL	USED TO RECORD CHANGES IN WATER LEVEL. ALWAYS SHOWN AT THE BEGINNING OF EVERY SURVEY. DRY PIPE SHOWN AS 0.00%	DESCRIBED BY PERCENTAGE OF HEIGHT OR DIAMETER. RECORDED IN 5% INCREMENTS	
XP	COLLAPSED	DRAIN OR PIPE HAS A COMPLETE LOSS OF STRUCTURAL INTEGRITY. ALWAYS FOLLOWED BY SA – SURVEY ABANDONED	PERCENTAGE LOSS OF CROSS-SECTIONAL AREA IS RECORDED. OTHER RELATED STRUCTURAL DEFECTS ARE NOT RECORDED	

CLOCK REFERENCES



03-09



09-03



11-01

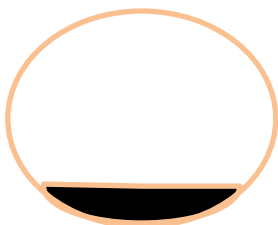


08-04

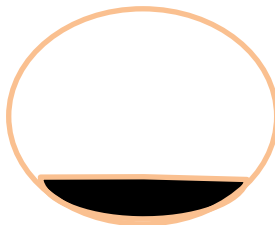


12

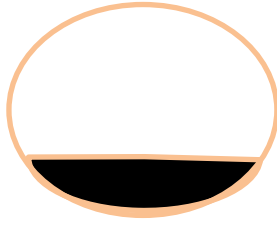
PERCENTAGE AREA REDUCTION – SETTLED/ATTACHED DEPOSITS



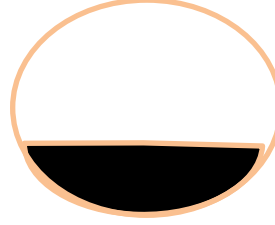
5%



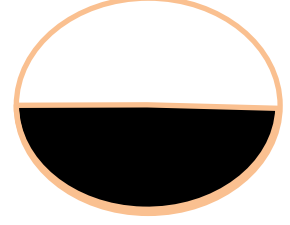
10%



25%



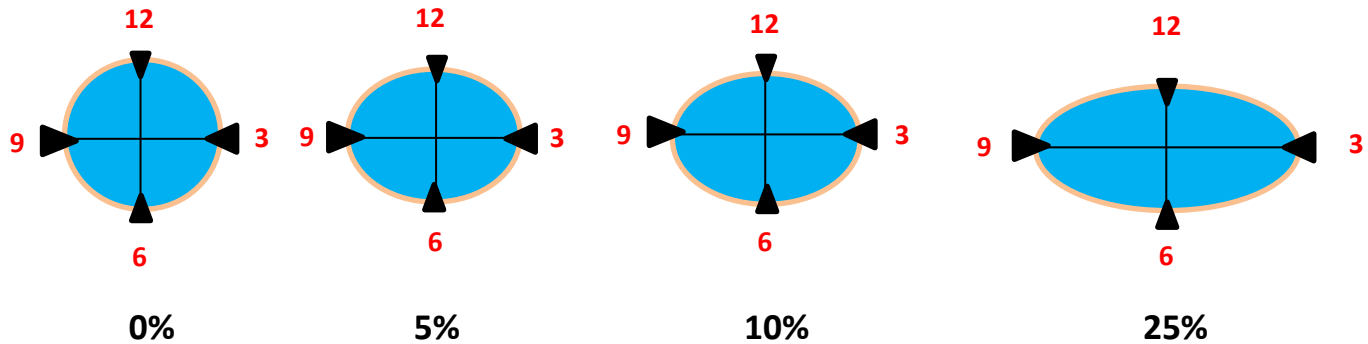
35%



50



PIPE/SEWER SHOWING PERCENTAGE AREA LOSS CAUSED BY DEFORMATION

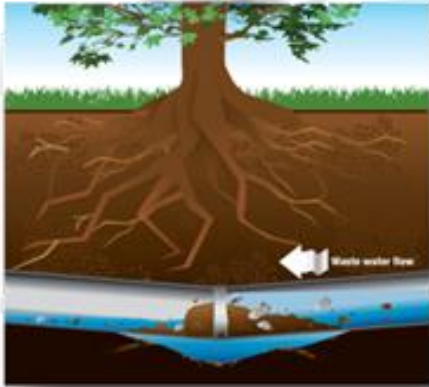


COLLAPSED DRAIN OR PIPE

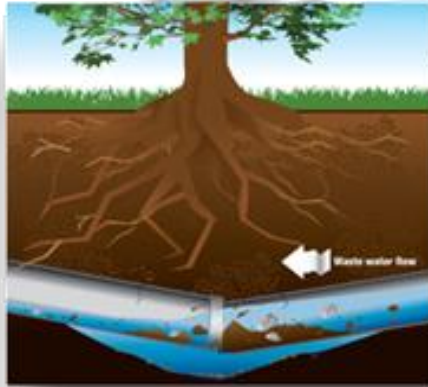




Stage 1



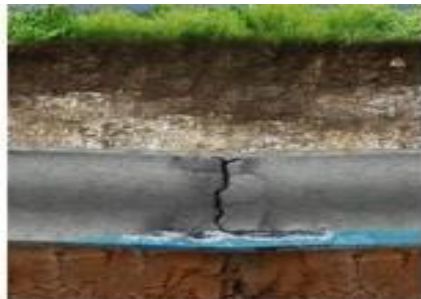
Stage 2



Stage 3



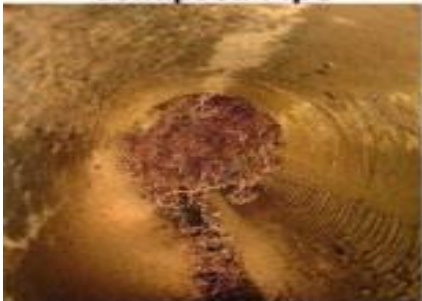
Collapsed Pipe



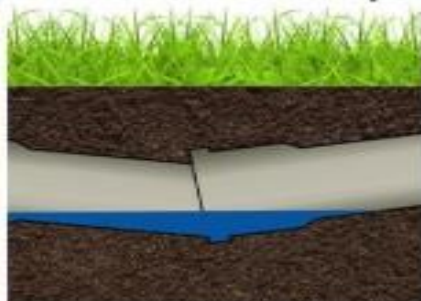
Cracked or Broken Pipe



Offset Pipe



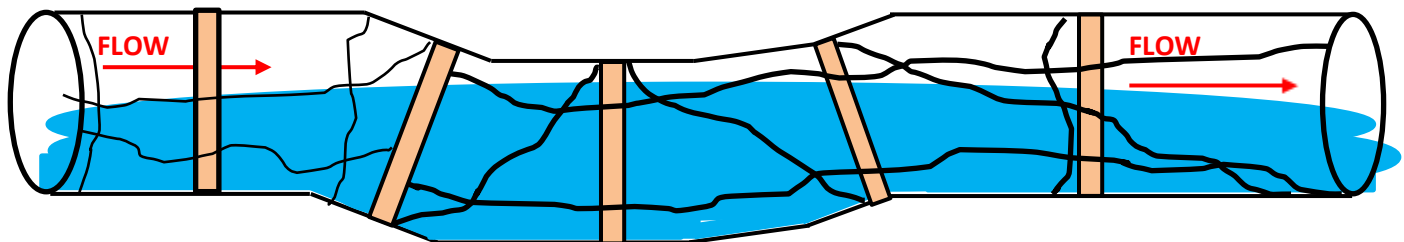
Root Intrusion



Low - Belly Area



Burst - Leaking Pipe



- **PIPE HAS VIRTUALLY COLLAPSED.**

Unit 42, Greenway Business Centre Harlow Business Park Harlow CM19 5QE Tel: 01279 456008

admin@knightanddayltd.co.uk Company Number: 11639814





- **PIPE HAS VIRTUALLY COLLAPSED.**
- **INITIALLY CRACKED PIPE WORK EXISTS. A CRACK IS NOT VISIBLY OPEN SO WILL NOT ALLOW WATER TO ENTER OR ESCAPE FROM THE DRAIN.**
- **THE CRACKS HAVE DETERIORATED TO FRACTURED PIPE WORK. WATER CAN NOW PASS FROM WITHIN THE DRAIN TO EXTERNAL GROUND.**
- **THE PIPE IS DEFORMED AND LOST IT'S STRUCTURAL INTEGRITY.**
- **THE SATURATED GROUND OUTSIDE OF THE DRAIN HAS CAUSED THE PIPE TO COLLAPSE CAUSING HIGH WATER LEVELS. THIS DRAIN IS NOT IN A SERVICEABLE CONDITION.**
- **EXCAVATION/REPLACEMENT OF THE COLLAPSED SEWER REQUIRED.**